



## ABSTRACT

### METHOD FOR DETECTING A SIGNAL AND RECEIVER SYSTEM FOR THE IMPLEMENTATION OF THE METHOD

The method seeks detection of a signal burst transmitted on the initiative of a sender on a radio channel listened to by a receiver system. The burst transmitted represents a predetermined digital sequence. Channel parameters representing a statistical behaviour of the radio channel are estimated and a detection magnitude is evaluated on the basis of the estimated channel parameters and of a correlation between a signal received at the receiver system and the predetermined digital sequence. The detection magnitude is compared with an adaptive detection threshold to decide whether the signal burst is detected.

Figure 2